

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Robert L. Williams

GENERAL INFORMATION:

Name:	Jim Smith Contracting Company, LLC
Address:	1108 Dover Road Grand Rivers, Kentucky 42045
Date application received:	February 9, 2007
SIC/Source description:	2951 / Asphalt Paving Mixture
Source ID #:	21-139-00002
Source A.I. #:	38980
Activity #:	APE20070001
Permit number:	F-06-023 Revised

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
___Administrative	<input type="checkbox"/> Title V
<u>x</u> Minor	<input type="checkbox"/> Synthetic minor
___Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:**Emissions Potential with Addition of Portable RAP Plant (F-06-023 Revised)**

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	63.294 / 15.808	268.564 / 81.025
SO ₂	27.772	243.090
NO _x	32.239	294.555
CO	94.994	900.090
VOC	15.762	132.618
LEAD	0.000214	0.00177
HAP ∑ 10 tpy (by CAS)	0.656	7.099
	0.049	0.322
	27.772	243.090
	32.239	294.555
HCl	0.049	0.322

Emissions Potential of Existing Equipment (F-06-023)

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	47.809 / 13.065	278.163 / 82.903
SO ₂	27.772	243.090
NO _x	32.239	294.555
CO	94.994	900.090
VOC	15.762	132.618
LEAD	0.000214	0.00177
HAP ∑ 10 tpy (by CAS)	0.656	7.099
HCl	0.049	0.322

SOURCE DESCRIPTION:

Jim Smith Contracting Company, LLC is currently operating a batch hot-mix asphalt plant at their Lake Paving facility in Grand Rivers, Kentucky which is governed by state-origin permit #S-04-030. They submitted an application on March 8, 2006 for the addition of a separate drum hot-mix asphalt plant at the same site. This is due to the reliability problems of the batch plant in the past. The addition of the second plant will ensure that a constant supply of hot-mix asphalt is available for both their road building projects, as well as for sale to local contractors. The proposed drum-mix plant will eventually replace the batch-mix equipment.

The existing batch-mix plant is regulated under State Regulation 401 KAR 52:090, Prohibitory Rule for Hot-Mix Asphalt Plants, and is limited to a production rate of 360,000 tons for any twelve-month consecutive period. The existing batch-mix plant and proposed drum-mix plant will be considered as one source as they are on adjacent sites and under common control. The consulting firm submitting the application for Jim Smith Contracting Company, LLC has erroneously suggested that the source can remain a state-origin source governed under State Regulation 401 KAR 52:090 by limiting the twelve-month production of asphalt by both plants to 360,000 tons of asphalt.

Since Jim Smith Contracting Company, LLC has agreed to accept limits to the facility to remain below major source thresholds, this permit will be issued pursuant to State Regulation 401 KAR 52:030, Federally-enforceable permits for non-major sources and will be an initial construction / operating Conditional Major permit. The limits set forth in the permit will restrict asphalt production of the batch plant to 323,000 tons/year, and the drum plant will be restricted to 467,000 tons/year.

MINOR PERMIT REVISION: ADDITION OF PORTABLE RAP PLANT

The source is adding a portable RAP unit to the facility, (EP 08 and EP 09). Actual PM / PM₁₀ emissions are estimated to remain below major source limits; therefore no change in the existing permitted emission limitations was requested with this addition.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

Jim Smith Contracting Company, LLC has requested voluntary permit limits of less than 95 tons per year of PM / PM₁₀, CO, NO_x, SO₂, and VOC and 22.5 tons per year of HAPs. The limiting of the potential-to-emit (PTE) of CO in asphalt production will also limit the PTE of SO₂, VOC, and HAPs. The limiting of the potential-to-emit (PTE) of CO will not limit the potential-to-emit (PTE) of PM / PM₁₀ for the source, as additional emission points may be added that emit only particulate matter.

OPERATIONAL FLEXIBILITY:

The source is restricted to 323,000 tons/year of asphalt production from the batch plant and 467,000 tons/year of asphalt production from the drum plant.